FSA Modernization Partner

NSLDS II Reengineering System Interface Detail Design: National Student Clearinghouse Direct Loan Enrollment Interface I-CLHS-1

Version 1.0

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Document Control

Version Number	Description	Release Date	Author
1.0	Initial Issue	11/08/2002	Troy Edwards

FSA Modernization Program
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IDD: I-CLHS-1

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1 Clearinghouse Interfaces

The National Student Clearinghouse (Clearinghouse) will send NSLDS II Direct Loan Enrollment Data on a weekly basis. The data sent to NSLDS II includes the student enrollment data that the Clearinghouse receives from schools as part of the Enrollment Reporting process. The Clearinghouse monitors a list of Direct Loan Recipients sent by the DL Servicer. When enrollment changes for Direct Loan participants are submitted to the Clearinghouse by schools using the Clearinghouse for this function, changes are collected and sent to NSLDS II weekly. After submission of the Direct Loan Enrollment Data File, normal NSLDS II Enrollment Reporting procedures are followed (See Interface Document: I-SCHL-1). Note: The Clearinghouse will also interface with NSLDS II for non-Direct Loan recipients as a Servicer in the Enrollment Reporting Process (see Interface Document I-SCHL-1).

The Clearinghouse interfaces include:
*   Direct Loan Enrollment Data (**Section 1.2**)

1.1 System Specifics

1.1.1 NSLDS II

Item	Description
Production Platform *(Vendor/Product Name/Version)*	IBM/ Cluster 1600 Server/ 4 p-Series 660 Model 6M1 4 FastT500 Disk Arrays
Operating System *(Vendor/Product Name/Version)*	Unix / AIX / V5.1 Parallel Systems Support Program (PSSP)
DBMS *(Vendor/Product Name/Version)*	IBM/DB2 Universal Database (UDB)/Enterprise Extended v. 7.2
Transmission Protocol	TCP/IP
Production System IP Address	TBD
Production System Location	Meriden, CT
Contracting Organization	Accenture – Modernization Partner
Developer Location	Modernization Partner Offices – Washington DC

1.1.2 Clearinghouse

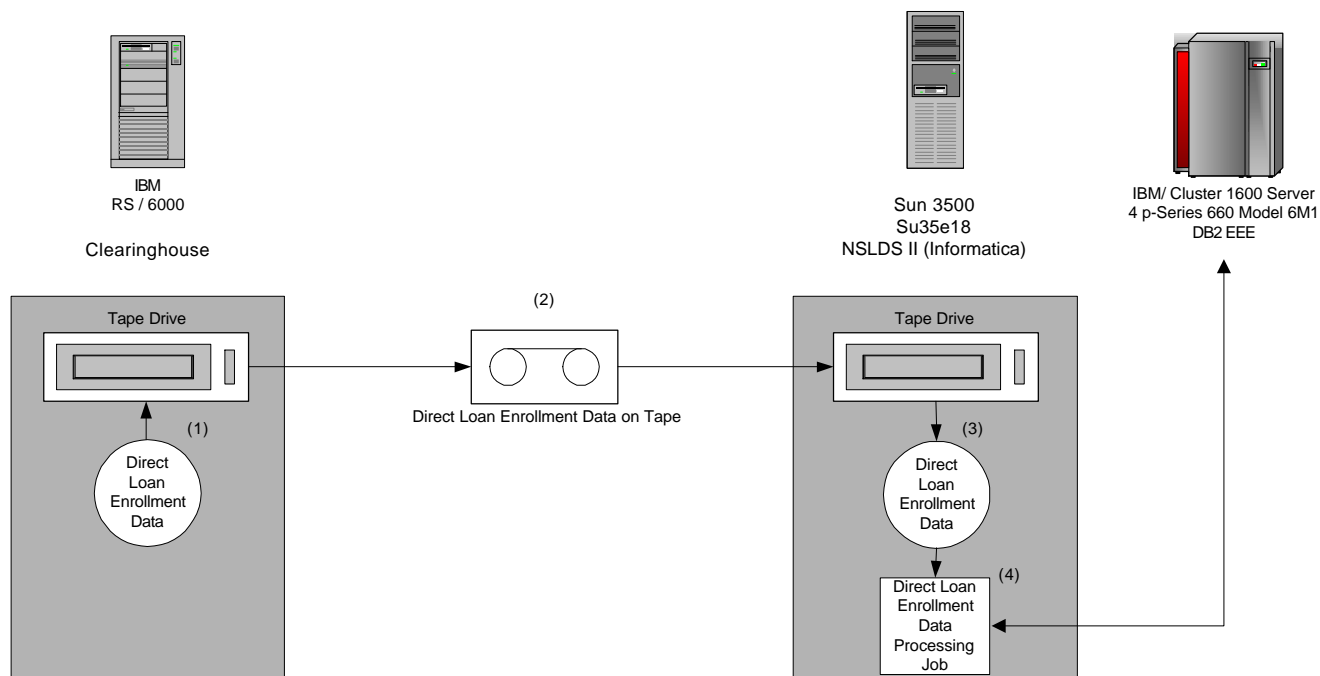| Item	Description
Production Platform *(Vendor/Product Name/Version)*	IBM RS / 6000
Operating System *(Vendor/Product Name/Version)*	OS390
DBMS	IDMS

(Vendor/Product Name/Version)	
Transmission Protocol	Tape Interface
Production System IP Address	NA
Production System Location	Herndon, Virginia
Contracting Organization	National Student Clearinghouse
Developer Location	Herndon, Virginia

1.2   Clearinghouse Direct Loan Enrollment File

1.2.1   Interface Control Specifications

Interface Name:	Clearinghouse Direct Loan Enrollment File Interface
Interface Type/Direction:	Unidirectional, Batch Type
Interface Short Description:	This document defines the processes utilized by NSLDS II to receive and process the Direct Loan Enrollment File from the Clearinghouse. The data sent to NSLDS II includes the student enrollment data that the Clearinghouse receives from schools as part of the Enrollment Reporting process. The Clearinghouse monitors a list of Direct Loan Recipients sent by the DL Servicer. When enrollment changes for Direct Loan participants are submitted to the Clearinghouse by schools using the Clearinghouse for this function, changes are collected and sent to NSLDS II weekly. After submission of the Direct Loan Enrollment Data File, normal NSLDS II Enrollment Reporting procedures are followed (See Interface Document: I-SCHL-1).
Requesting Application: or Source Application:	The Clearinghouse is the source of the Direct Loan Enrollment File
Responding Application: or Destination Application:	NSLDS II receives the Direct Loan Enrollment Data File
Detailed Technical Requirement References:	5.049
Interface Usage Frequency:	Weekly
Interface Usage Volume:	Varies
Output Media:	Flat File in EBCDIC Format
Transmission Mechanism:	Tape Interface

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1.2.2 Interface Flow

IBM
RS / 6000

Clearinghouse

Sun 3500
Su35e18
NSLDS II (Informatica)

IBM/ Cluster 1600 Server
4 p-Series 660 Model 6M1
DB2 EEE

Tape Drive

(2)

Tape Drive

Direct Loan Enrollment Data on Tape

(1)

Direct
Loan
Enrollment
Data

(3)

Direct
Loan
Enrollment
Data

(4)

Direct Loan
Enrollment
Data
Processing
Job

1.2.3 Interface Flow Description

1. The Clearinghouse will create a Direct Loan Enrollment File and write it to a tape
2. The tape containing the Clearinghouse data will be transported to the Virtual Data Center (VDC)
3. The Informatica server will retrieve the data off of the tape using a local tape drive
4. NSLDS II (Informatica) will process the Direct Loan Enrollment File and create an
Acknowledgement/Error file that is sent back to the Clearinghouse (see Interface Design Document: I-SCHL-1)

1.2.4 Source System Functional Specifications

#	Responsibility
1	The Clearinghouse will create a Direct Loan Enrollment File and write it to a tape
2	The data extracted will be laid out as in section 1.2.8 Each record will consist of: One Header Record One or more Detail Records One Trailer Record
3	Field formats in the Direct Loan Enrollment File are: – *Character* denotes a field that may contain spaces, letters, or numbers in any combination—for example, 17 Magnolia Street. Character fields not specifically reported must be filled with spaces. If a field is said to require a value "greater than

spaces," the field must contain at least one letter or number.

- – *Numeric* denotes a field that must contain only numbers—for example, 1234567 as a Loan Sequence Number. Letters, special characters, or spaces in a numeric field are invalid. An entry of T491_24, for example, would not be accepted. Unless otherwise specified in the record layout, numeric fields not specifically reported must be filled with zeros.

- – *Date* fields must contain only numeric data, eight digits, and appear in the format CCYYMMDD

1.2.5   Destination System Functional Specifications

#	Responsibility
1	The Informatica server will retrieve the data off of the tape
2	NSLDS II (Informatica) will process the Direct Loan Enrollment File

1.2.6   Interface Assumptions

#	Assumption
1	A tape drive is installed and configured at the Clearinghouse and at NSLDS II (Informatica)
2	The tape will be transported from the Clearinghouse to the VDC
3	The first release of NSLDS II will support submission of the Direct Loan Enrollment File on tape, although efforts to promote the automated submission of this file will be pursued. Three tape formats are currently being used in legacy NSLDS, 3420, 3480, and 3490.
4	Once the Direct Loan Enrolment File has been submitted, normal NSLDS II Enrollment Reporting processes are followed. An Acknowledge/Error Notification File is created and sent back to the Clearinghouse. File Layouts and Error Codes/Messages are described in Interface Design Document (I-SCHL-1).

1.2.7   Error Messages

See Interface Assumptions (Section 1.2.6)

1.2.8 File Layout

Header Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Sequence Number	1-7	7	Char	0000000	NA	SSCR_Transmittal_Detail/D_SSCR_Sequence_Number
Confirm text	8-25	18	Char	'SSCR ROSTER HEADER'	NA	NA
Provider code	26-35	10	Char	Code for provider sending file	Must be valid Provider Code from Lookup Table	PORT/Port_Prov_Code
Filler	36-36	1	Num	Filler	NA	NA
Create date	37-56	20	Char	Timestamp when file generated	NA	NA
Filler	57-336	280	Num	Filler	NA	NA

Detail Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Sequence Number	1-7	7	Num.	Record Sequence Number. Header - 0000000 Detail - 0000001,2,3 Trailer - 9999999	NA	SSCR_Transmittal_Detail/D_SSCR_Sequence_Number

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Current SSN	8-16	9	Char.	SSN Recorded as Current.	Value must match an SSN in the NSLDS database.	STU/Curr_SSN
Current Pseudo SSN Indicator	17-17	1	Char.	Indicator describing the SSN as an actual SSN or an Identification ID other than SSN.	Must be R (for "real") or P (for "pseudo").	STU/ Curr_Pseudo_Ind
Current Last	18-52	35	Char.	Last Name Reported as Current.	Must match value in NSLDS database	STU / Curr_Lst
Current First	53-64	12	Char.	First Name Recorded as Current.	Must match value in NSLDS	STU / Curr_Fst
Current Middle Initial	65-65	1	Char.	Middle Initial Recorded as Current.	NA	STU / Mid_Init
Date of Birth	66-73	8	Num.	D.O.B. Recorded as Current.	Must contain all numbers. MM must be a value from 01–12; DD must be a value from 01–31, depending on the month and year	STU / DOB
Filler	74-138	65	Num.	Filler		NA

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Anticipated Completion Date	139-146	8	Num.	Student's anticipated completion that would make the status change.	Must be all numeric. MM must be a value from 01–12; DD must be a value from 01–31, depending on the month and year; CC must be 19 or 20. If the Enrollment Status Code equals A, F, or H, this date must be greater than the Certification Date and the Enrollment Status Effective Date. If the Enrollment Status Code equals G, this field must equal the Enrollment Status Effective Date.	STU_BR/Antic_Compl_Dt
Filler	147-289	143	Num.	Filler	NA	NA
Current Enrollment Code	290-290	1	Char.	Enrollment Status Code	Must be a valid Enrollment Status Codes (from Look-Up Table), and must have a corresponding value in the Date Enrollment Status Effective field. Must not be blank.	STU_STAT/ Enrl_Code
Current Effective Date	291-298	8	Num.	Date the Enrollment Code is effective.	Must be all numeric. MM must be a value from 01–12 and DD must be a value from 01–31, depending on the month and year. There must be a corresponding value in the Code for Enrollment Status field. Must be no more than 30 years in the past, based on the roster generation date. Cannot be before the student's Date of Birth plus 12 years.	STU_STAT/EFF_DT

Data Element	Field Position	Length	Type	Description	Edits	Mapping
School Code	299-304	6	Char.	First 6 positions of OPE-ID for the school that reported the enrollment.	Must be valid OPEID	SCH/Code
Branch Code	305-306	2	Char.	Last 2 positions of OPE-ID for the school that reported the enrollment.	Must be valid Branch Code	SCH_BR/Code
Date	307-314	8	Char.	Date as of which a school certified enrollment information for a student.	NA	STU_STAT/Cert_Date
Filler	315-336	22	Num.	Filler	NA	NA

Trailer Record Layout

Data Element	Field Position	Length	Type	Description	Edits	Mapping
Sequence Number	1-7	7	Char	9999999	NA	SSCR_Transmittal_Detail/D_SSCR_Sequence_Numer
Confirm text	8-26	19	Char	'SSCR ROSTER TRAILER'	NA	NA
Total rec sent	27-34	8	Char	Total number of Detail Records in the File	Must equal total number of Detail Records in the Submittal File.	NA
Filler	35-336	302	Num	Filler	NA	NA